

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An exercise training apparatus comprising:  
a support frame having a front support member and a rear mounting assembly;  
a bicycle frame having a rotatable front fork and a rear fork, the front and rear forks being capable of detachably mounting ground engaging wheels thereon, the front and rear forks being detachably coupled to the respective front support member and rear mounting assembly of the support frame;  
a flywheel rotatably coupled to the rear mounting assembly of the support frame;  
a transmission system including a rear sprocket driven member coupled to the flywheel and a user operable crank drive assembly, the crank drive assembly coupled to the bicycle frame and operably connected to the rear sprocket driven member through a flexible drive element, wherein the driven member and the flywheel are substantially coaxial; and  
a magnetic field generation source coupled to the rear mounting assembly of the support frame, a portion of the flywheel passing through the magnetic field generation source.

2. (Original) The apparatus of Claim 1, wherein the portion of the flywheel passing through the magnetic field source includes a nonmagnetic, electrically conductive ring.

3. (Original) The apparatus of Claim 2, wherein the flywheel includes a plurality of radial segments that form the nonmagnetic, electrically conductive ring.

4. (Original) The apparatus of Claim 1, wherein the flywheel extends between the rear forks of the bicycle frame.

5. (Original) The apparatus of Claim 1, wherein resistance is created against the rotation of the crank assembly when the flywheel passes through a magnetic field generated by the magnetic field generation source.

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6. (Currently Amended) An exercise training apparatus comprising:  
a support frame having a rear mounting structure adapted to be connected to for supporting a bicycle frame, the bicycle frame having a transmission including a flexible drive element; and

a resistance generation unit for creating resistance against the transmission, the resistance generation unit coupled to the support frame;

wherein the support frame including includes a chain tensioning device for selectively tension tensioning the flexible drive element.

7. (Currently Amended) The apparatus of Claim 6, wherein the chain tensioning device comprises:

a base;  
a support member projecting upwardly from the base, a portion of which supports the flexible drive element;

an elongate deflection member having a first end secured to the support member and a second end secured securable to the bicycle frame; and

a linear actuator mounted on the support member, an end of the linear actuator engagable engageable with the second end of the deflection member.

8. (Currently Amended) The apparatus of Claim 7, wherein the resistance unit includes a flywheel rotatably coupled to the support member of the chain tensioning device; and

a magnetic field generation source coupled to the base of the chain tensioning device, a portion of the flywheel passing through the magnetic field source to for creating create the resistance against the transmission.

9. (Original) The apparatus of Claim 8, wherein the magnetic field source is an electromagnet.

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10. (Original) The apparatus of Claim 6, the support frame further comprising an adjustment mechanism for selectively adjusting the wheel base of the bicycle frame.

11. (Original) The apparatus of Claim 7, wherein linear translation of the linear actuator causes the end of the linear actuator to engage with the deflection member so as to bend the deflection member away from the support to selectively tension the flexible drive element.

12-14. (Canceled)

15. (Currently Amended) An exercise apparatus comprising: In an exercise training device having a resistance unit and a support frame, the resistance unit including a flywheel and a magnetic field generation source, the magnetic generation source coupled to the support frame, the support frame adapted to receive a bicycle frame, the support frame including a front support member and a rear mounting assembly, the front support member and the rear mounting assembly adapted for receiving a respective front fork and a rear fork of the bicycle frame, the bicycle frame having a transmission system including a rear sprocket and pedals, the pedals operably connected to the rear sprocket through pedals, a driven element, and a flexible drive element; a support frame including a rear mounting assembly; and

a resistance unit including a magnetic field generation source and a flywheel, wherein the flywheel comprises:

a circular body including an outer peripheral flange and a hub section, the hub section having a centrally located bore for receiving an axle, the circular body adapted to be rotatably connected to the rear mounting assembly through the axle; and

a plurality of radial segments of a non-magnetic, conductive material are removably coupled to the outer peripheral flange defining gaps therebetween; and

a driven member connected to the hub section, wherein the flywheel driven member is adapted to be drivingly drivenly connectable to the drive a transmission system for

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rotating, the rotation of the pedals causing a portion of the radial segments to pass through the magnetic field generation source resulting in a resistance against the rotation of the pedals flywheel.

16-20. (Canceled)

21. (New) An exercise training apparatus comprising:

a support frame for supporting a bicycle frame having a transmission including a flexible drive element; and

a resistance generation unit for creating resistance against the transmission, the resistance generation unit coupled to the support frame;

wherein the support frame includes a tensioning device for selectively tensioning the flexible drive element, the tensioning device including a base, a support member projecting upwardly from the base, a portion of which supports the flexible drive element, an elongate deflection member having a first end secured to the support member and a second end securable to the bicycle frame; and a linear actuator mounted on the support member, an end of the linear actuator engagable with the second end of the deflection member.

22. (New) An exercise training apparatus comprising:

a support frame for supporting a bicycle frame having a transmission including a flexible drive element, the support frame further comprising an adjustment mechanism for selectively adjusting the wheel base of the support frame, which corresponds to the wheel base of a bicycle frame to be supported by the support frame; and

a resistance generation unit for creating resistance against the transmission, the resistance generation unit coupled to the support frame;

wherein the support frame includes a chain tensioning device for selectively tensioning the flexible drive element.

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23. (New) An exercise training apparatus comprising:

a support frame having a rear mounting assembly;

a bicycle frame having rear fork members, the rear fork members being capable of detachably mounting a ground engaging wheel thereon, the rear fork members being detachably coupled to the rear mounting assembly of the support frame about a common first axis;

a flywheel rotatably coupled about a second axis to the rear mounting assembly of the support frame in-between the rear fork members of the bicycle frame, wherein the second axis is different from the first axis;

a transmission system including a driven member coupled to the flywheel and a user operable drive assembly, the drive assembly coupled to the bicycle frame and operably connected to the driven member through a flexible transmission element; and

a magnetic field generation source coupled to the rear mounting assembly of the support frame, a portion of the flywheel passing through the magnetic field generation source.

24. (New) An exercise training apparatus comprising:

a support frame having a rear mounting assembly including a first support member and a second support member configured for selectively connecting rear fork members of the bicycle frame along a common, first connection axis;

a flywheel rotatably coupled about a second axis to the first support member of the rear mounting assembly in-between the rear fork members of the bicycle frame, wherein the second axis is different from the first connection axis; and

a magnetic field generation source coupled to the rear mounting assembly of the support frame, a portion of the flywheel passing through the magnetic field generation source.

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